

Status of Birds at the Hanford Site in Southeastern Washington

Prepared for the U.S. Department of Energy
Office of Environmental Restoration and
Waste Management



Westinghouse
Hanford Company Richland, Washington

Hanford Operations and Engineering Contractor for the
U.S. Department of Energy under Contract DE-AC06-87RL10930

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STATUS OF BIRDS AT THE HANFORD SITE IN SOUTHEASTERN WASHINGTON

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ABSTRACT

The Department of Energy has recently entered into agreements with the Washington State Department of Ecology, the Environmental Protection Agency, and Hanford Site contractors to focus work activities on cleanup and stabilization of radioactive and hazardous waste sites located at the Hanford Site in southeastern Washington. A list of 235 known birds that have been observed at the Hanford Site is given along with a status rating for abundance and seasonal occurrence. Previously published bird lists from the Hanford Site are included as well as the author observations from 1977 to 1990. Of the 235 species listed, 35 are considered common and 38 are listed as accidentals. All but nine birds on the Hanford Site list have previously been documented by the Audubon Society to occur within a 25-mile radius of the Tri-Cities. The nine birds that are not on the Audubon list, however, have been documented in other parts of eastern Washington. A list of hypothetical birds that have been documented within 50 miles of the Hanford Site but not actually observed at the Site is also provided. This is the most complete list of birds published to date from the Hanford Site and substantially augments other previously published lists by almost 100 species.

Key words: Hanford, Birds, Columbia River, Washington

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STATUS OF BIRDS AT THE HANFORD SITE IN SOUTHEASTERN WASHINGTON

1.0 INTRODUCTION

Recent agreements with the Washington State Department of Ecology, Environmental Protection Agency and onsite Hanford contractors are now focusing on the cleanup and stabilization of all radioactive and hazardous waste sites located at the Hanford Site. In view of these future cleanup and restoration objectives it becomes very important to document the various wildlife species that have been observed at the site. This report contains a complete list of all the birds that have been observed at the Hanford Site.

The Hanford Site, which currently consists of 1,476 square kilometers (km^2) in southcentral Washington, was established in 1943 as a national security area for the production of plutonium used in nuclear weapons (Figure 1). In 1968, the Atomic Energy Commission designated 311 km^2 of the area as an Arid Lands Ecology Reserve. During the 1970's, about 130 km^2 north of the Columbia River were leased to the United States Fish and Wildlife Service for the Saddle Mountain National Wildlife Refuge, and about 200 km^2 north and east of the river were leased to the Washington Department of Game to be used for outdoor recreation. In 1977 the Site was designated as a National Environmental Research Park by the United States Energy Research and Development Administration. The Hanford Site is one of the few large areas of land in the region that has not been developed for agricultural use. It is also unique in that the general public's use of the area is very restricted and in the past has been limited to projects associated with the nuclear industry. The area in which the Hanford Site is located is bounded on the north by the Saddle Mountains, on the east by the Columbia River, and on the south and west by the Yakima River and Rattlesnake Hills, respectively. The dominant topographical features of the Hanford Site include the Rattlesnake Hills (elevation 1,090 m), the Columbia River and associated aquatic habitats, unstabilized sand dunes near the Columbia River, basaltic ridges that interrupt the rolling landscape of the Site, and the 200 Area plateau (elevation 200 m), which is the location of the most manmade perturbations.

The climate at the Hanford Site is probably the hottest and driest in the Pacific Northwest. The climate is strongly influenced by the Cascade Mountain Range to the west, which forms a barrier to moisture-laden storms from the Pacific Ocean. July is the hottest and driest month, and January is the coldest and wettest. Annual precipitation averages slightly less than 17.8 cm with 42% of that amount falling between November and January. The average annual temperature is 11.7 °C; temperatures in excess of 38 °C and below 0 °C are common.

The Hanford Site has been classified primarily as a shrub-steppe grassland (Daubenmire 1970) and is composed of a variety of plant communities. Major plant species composing these communities include sagebrush (*Artemisia tridentata*), bitterbrush (*Purshia tridentata*), Sandberg's bluegrass (*Poa sandbergii*), cheatgrass (*Bromus tectorum*) and rabbitbrush species (*Chrysothamnus* sp.).

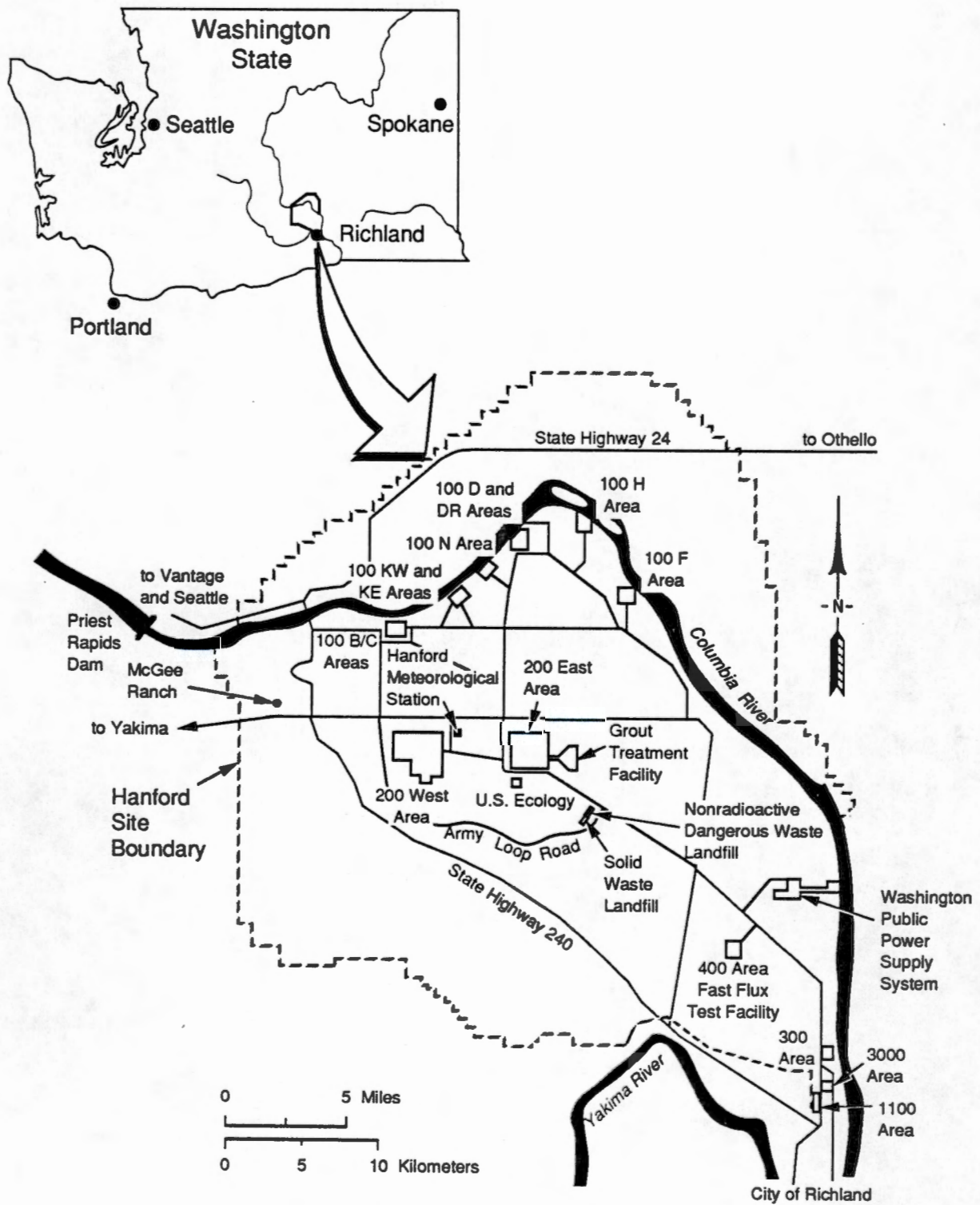


Figure 1. Location of the Hanford Site.

The principal bodies of water associated with the Hanford Site include the last free-flowing stretch of the Columbia River in the United States and several ponds and ditches that result from the operation of nuclear facilities. The Columbia River is not only an important salmon, steelhead, and bass fishery; its many islands also serve as nesting grounds for Canada Geese and other waterfowl. All the ponds and ditches are unique to this area, because they were created as a result of man's activities and attract many animal species, particularly birds, that would not otherwise be found here. The total aquatic habitat aside from that provided by the Columbia River system is approximately 57 ha.

2.0 METHODS AND DISCUSSION

The bird occurrence information reported here represents the authors' field observations from numerous site characterization efforts conducted throughout the general Hanford Site environs from 1977 to 1990, as well as previously published documents. Previous Hanford Site documents and journal articles that have reported bird occurrences were limited to specific areas of the Hanford Site such as the Columbia River (Fickeisen et al. 1980; Books 1985; Hanson 1958, 1969, 1970), Hanford Site waste ponds (Fitzner and Price 1973; Fitzner and Rickard 1975), Arid Lands Ecology Reserve (Rotenberry et al. 1979; Vaughan 1978; Rickard 1964) and other specific sites (Schuler et al. 1988; Fitzner et al. 1981).

The taxonomy in this report is taken from the latest *American Ornithologist's Union Checklist of North American Birds*, which was published in the 35th, 36th and 37th supplements to the Auk (1985, 1987, 1989). Other sources of information that were used to document previous occurrences of birds in Washington State were Weber and Larrison 1977, Larrison and Sonnenberg 1968 and Jewett et al. 1953. Bird occurrences are presented in Table 1 and listed according to family, genus species, common name, and status. Table 1 presents 41 families and 235 species. Of these 235 species 35 are considered common and 38 are listed as accidentals. All but nine of these birds have been previously documented to occur in the Tri-Cities area by the Audubon Society. However, these nine birds have been documented previously in Eastern Washington. Table 2 provides the observation dates and locations of the birds that have been listed as accidentals. Table 3 lists the birds that are hypothetical to the Hanford Site. Hypothetical for the purpose of this report means birds that have been documented to occur within 50 miles of the Hanford Site but have never been actually observed at Hanford.

The scaled quail listed here is a sighting of a single covey, by Hanson, in 1956. No sighting of the scaled quail has been recorded since. Scaled quail were introduced into various areas of eastern Washington many years ago by the Washington State Department of Game. The Philadelphia Vireo, which was seen on 3 occasions in 1983, has only been previously reported in the state on one other occasion, in Richland, Washington in 1975 (Weber and Larrison 1977). This is the most complete list of birds ever published from the Hanford Site and substantially augments all other previously published lists by almost 100 species.

A status rating is given for abundance and seasonal occurrence for each species as follows:

Abundance:

- C - common--often seen or heard in appropriate habitat.
- U - uncommon--usually present but not always seen or heard.
- R - rare--present in appropriate habitats only in small numbers; seldom seen or heard.
- A - accidental--appeared once or twice, but well out of normal range.

Seasonal Occurrence:

- r - resident--present all year but abundance may vary seasonally.
- s - summer visitor (includes spring and fall).
- w - winter visitor (includes spring and fall).
- m - migrant.

Table 1. Status of Birds of the Hanford Site, Washington.
(sheet 1 of 11)

Family	Common name	Genus species	Status
Gaviidae			
	Pacific Loon	<i>Gavia pacifica</i>	Rw
	Common Loon	<i>Gavia immer</i>	Rw
Podicipedidae			
	Pied-billed Grebe	<i>Podilymbus podiceps</i>	Cr
	Horned Grebe	<i>Podiceps auritus</i>	Uw
	Eared Grebe	<i>Podiceps nigricollis</i>	Um
	Western Grebe	<i>Aechmophorus occidentalis</i>	Ur
	Clark's Grebe	<i>Aechmophorus clarkii</i>	Rm
Pelecanidae			
	American White Pelican	<i>Pelecanus erythrorhynchos</i>	Ur
Phalacrocoracidae			
	Double-crested Cormorant	<i>Phalacrocorax auritus</i>	Ur
Ardeidae			
	American Bittern	<i>Botaurus lentiginosus</i>	Rs
	Great Blue Heron	<i>Ardea herodias</i>	Cr
	Snowy Egret	<i>Egretta thula</i>	Rm
	Great Egret	<i>Casmerodius albus</i>	Rm
	Black-crowned Night-Heron	<i>Nycticorax nycticorax</i>	Ur
Anatidae			
	Tundra Swan	<i>Cygnus columbianus</i>	Rw
	Trumpeter Swan	<i>Cygnus buccinator</i>	Am
	Greater White-fronted Goose	<i>Anser albifrons</i>	Rm
	Snow Goose	<i>Chen caerulescens</i>	Rw
	Canada Goose	<i>Branta canadensis</i>	Cr
	Brant	<i>Branta bernicla</i>	Am
	Green-winged Teal	<i>Anas crecca</i>	Us

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Seasonal occurrence:

- r - resident--present all year but abundance may vary seasonally
- s - summer visitor (includes spring and fall)
- w - winter visitor (includes spring and fall)
- m - migrant.

Table 1. Status of Birds of the Hanford Site, Washington.
(sheet 2 of 11)

Family	Common name	Genus species	Status
Anatidae (continued)			
	Mallard	<i>Anas platyrhynchos</i>	Ra
	Northern Pintail	<i>Anas acuta</i>	Cw
	Blue-winged Teal	<i>Anas discors</i>	Rm
	Cinnamon Teal	<i>Anas cyanoptera</i>	Us
	Northern Shoveler	<i>Anas clypeata</i>	Cr
	Gadwall	<i>Anas strepera</i>	Uw
	Eurasian Wigeon	<i>Anas penelope</i>	Rw
	American Wigeon	<i>Anas americana</i>	Cw
	Canvasback	<i>Aythya valisineria</i>	Uw
	Redhead	<i>Aythya americana</i>	Cw
	Ring-necked Duck	<i>Aythya collaris</i>	Uw
	Lesser Scaup	<i>Aythya affinis</i>	Uw
	Greater Scaup	<i>Aythya marila</i>	Rw
	Oldsquaw	<i>Clangula hyemalis</i>	Rw
	Common Goldeneye	<i>Bucephala clangula</i>	Uw
	Barrow's Goldeneye	<i>Bucephala islandica</i>	Rw
	Bufflehead	<i>Bucephala albeola</i>	Cw
	Hooded Merganser	<i>Lophodytes cucullatus</i>	Rw
	Common Merganser	<i>Mergus merganser</i>	Cw
	Red-breasted Merganser	<i>Mergus serrator</i>	Aw
	Ruddy Duck	<i>Oxyura jamaicensis</i>	Ur
Cathartidae			
	Turkey Vulture	<i>Cathartes aura</i>	Am
Accipitridae			
	Osprey	<i>Pandion haliaetus</i>	Um
	Bald Eagle	<i>Haliaeetus leucocephalus</i>	Uw

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Table 1. Status of Birds of the Hanford Site, Washington.
(sheet 3 of 11)

Family	Common name	Genus species	Status
Accipitridae (continued)			
	Northern Harrier	<i>Circus cyaneus</i>	Ur
	Sharp-shinned Hawk	<i>Accipiter striatus</i>	Rw
	Cooper's Hawk	<i>Accipiter cooperii</i>	Rw
	Northern Goshawk	<i>Accipiter gentilis</i>	Rw
	Swainson's Hawk	<i>Buteo swainsoni</i>	Us
	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Ur
	Ferruginous Hawk	<i>Buteo regalis</i>	Rs
	Rough-legged Hawk	<i>Buteo lagopus</i>	Rw
	Golden Eagle	<i>Aquila chrysaetos</i>	Um
Falconidae			
	American Kestrel	<i>Falco sparverius</i>	Ur
	Merlin	<i>Falco columbarius</i>	Rm
	Peregrine Falcon	<i>Falco peregrinus</i>	Am
	Gyr Falcon	<i>Falco rusticolus</i>	Aw
	Prairie Falcon	<i>Falco mexicanus</i>	Ur
Phasianidae			
	Gray Partridge	<i>Perdix perdix</i>	Rr
	Chukar	<i>Alectoris chukar</i>	Ur
	Ring-necked Pheasant	<i>Phasianus colchicus</i>	Ur
	Sage Grouse	<i>Centrocercus urophasianus</i>	Rr
	Northern Bobwhite	<i>Colinus virginianus</i>	Am
	Scaled Quail	<i>Callipepla squamata</i>	Rr
	California Quail	<i>Callipepla californica</i>	Ur
Rallidae			
	Virginia Rail	<i>Rallus limicola</i>	Rr
	Sora	<i>Porzana carolina</i>	Rs

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Table 1. Status of Birds of the Hanford Site, Washington.
(sheet 4 of 11)

Family	Common name	Genus species	Status
Rallidae (continued)			
	American Coot	<i>Fulica americana</i>	Cr
Gruidae			
	Sandhill Crane	<i>Grus canadensis</i>	Um
Charadriidae			
	Blackbellied Plover	<i>Pluvialis squatarola</i>	Am
	Killdeer	<i>Charadrius vociferus</i>	Cr
	Mountain Plover	<i>Charadrius montanus</i>	Am
Recurvirostridae			
	American Avocet	<i>Recurvirostra americana</i>	Us
Scolopacidae			
	Greater Yellowlegs	<i>Tringa melanoleuca</i>	Um
	Lesser Yellowlegs	<i>Tringa flavipes</i>	Um
	Solitary Sandpiper	<i>Tringa solitaria</i>	Rm
	Spotted Sandpiper	<i>Actitis macularia</i>	Um
	Long-billed Curlew	<i>Numenius americanus</i>	Cs
	Marbled Godwit	<i>Limosa fedoa</i>	Am
	Sanderling	<i>Calidris alba</i>	Um
	Semipalmated Sandpiper	<i>Calidris pusilla</i>	Rm
	Western Sandpiper	<i>Calidris mauri</i>	Cm
	Least Sandpiper	<i>Calidris minutilla</i>	Cm
	Baird's Sandpiper	<i>Calidris bairdii</i>	Rm
	Pectoral Sandpiper	<i>Calidris melanotos</i>	Um
	Sharp-tailed Sandpiper	<i>Calidris acuminata</i>	Am
	Dunlin	<i>Calidris alpina</i>	Um
	Long-billed Dowitcher	<i>Limnodromus scolopaceus</i>	Cm
	Common Snipe	<i>Gallinago gallinago</i>	Rr

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(sheet 5 of 11)

Family	Common name	Genus species	Status
Scolopacidae (continued)			
	Wilson's Phalarope	<i>Phalaropus tricolor</i>	Us
	Red-necked Phalarope	<i>Phalaropus lobatus</i>	Um
	Red Phalarope	<i>Phalaropus fulicaria</i>	Am
Laridae			
	Parasitic Jaeger	<i>Stercorarius parasiticus</i>	Am
	Long-tailed Jaeger	<i>Stercorarius longicaudus</i>	Am
	Franklin's Gull	<i>Larus pipixcan</i>	Rm
	Bonaparte's Gull	<i>Larus philadelphia</i>	Um
	Ring-billed Gull	<i>Larus delawarensis</i>	Cr
	California Gull	<i>Larus californicus</i>	Cr
	Herring Gull	<i>Larus argentatus</i>	Aw
	Glaucous-winged Gull	<i>Larus glaucescens</i>	Uw
	Sabine's Gull	<i>Xema sabini</i>	Rm
	Caspian Tern	<i>Sterna caspia</i>	Rs
	Common Tern	<i>Sterna hirundo</i>	Rm
	Forster's Tern	<i>Sterna forsteri</i>	Us
	Arctic Tern	<i>Sterna paradisaea</i>	Am
Columbidae			
	Rock Dove	<i>Columba livia</i>	Cr
	Band-tailed Pigeon	<i>Columba fasciata</i>	Am
	Mourning Dove	<i>Zenaida macroura</i>	Cs
Tytonidae			
	Barn Owl	<i>Tyto alba</i>	Ur
Strigidae			
	Flammulated Owl	<i>Otus flammeolus</i>	Am

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(sheet 6 of 11)

Family	Common name	Genus species	Status
Strigidae (continued)			
	Western Screech-Owl	<i>Otus kennicottii</i>	Am
	Great Horned Owl	<i>Bubo virginianus</i>	Ur
	Barred Owl	<i>Strix varia</i>	Am
	Snowy Owl	<i>Nyctea scandiaca</i>	Rw
	Burrowing Owl	<i>Athene cunicularia</i>	Us
	Long-eared Owl	<i>Asio otus</i>	Ur
	Short-eared Owl	<i>Asio flammeus</i>	Ur
	Northern Saw-whet Owl	<i>Aegolius acadicus</i>	Am
Caprimulgidae			
	Common Nighthawk	<i>Chordeiles minor</i>	Cs
	Common Poorwill	<i>Phalaenoptilus nuttallii</i>	Am
Apodidae			
	White-throated Swift	<i>Aeronautes saxatalis</i>	Rs
Trochilidae			
	Black-chinned Hummingbird	<i>Archilochus alexandri</i>	Am
	Calliope Hummingbird	<i>Stellula calliope</i>	Um
	Rufous Hummingbird	<i>Selasphorus rufus</i>	Um
Alcedinidae			
	Belted Kingfisher	<i>Ceryle alcyon</i>	Ur
Picidae			
	Lewis' Woodpecker	<i>Melanerpes lewis</i>	Rm
	Downy Woodpecker	<i>Picoides pubescens</i>	Rw
	Hairy Woodpecker	<i>Picoides villosus</i>	Rw
	Northern Flicker	<i>Colaptes auratus</i>	Ur
Tyrannidae			
	Olive-sided Flycatcher	<i>Contopus borealis</i>	Rm

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Table 1. Status of Birds of the Hanford Site, Washington.
(sheet 7 of 11)

Family	Common name	Genus species	Status
Tyrannidae (continued)			
	Western Wood-Pewee	<i>Contopus sordidulus</i>	Um
	Willow Flycatcher	<i>Empidonax traillii</i>	Rm
	Dusky Flycatcher	<i>Empidonax oberholseri</i>	Rm
	Cordilleran Flycatcher	<i>Empidonax occidentalis</i>	Um
	Say's Phoebe	<i>Sayornis saya</i>	Us
	Black Phoebe	<i>Sayornis nigricans</i>	Am
	Ash-throated Flycatcher	<i>Myiarchus cinerascens</i>	Rs
	Western Kingbird	<i>Tyrannus verticalis</i>	Cs
	Eastern Kingbird	<i>Tyrannus tyrannus</i>	Us
Alaudidae			
	Horned Lark	<i>Eremophila alpestris</i>	Cr
Hirundinidae			
	Tree Swallow	<i>Tachycineta bicolor</i>	Um
	Violet-green Swallow	<i>Tachycineta thalassina</i>	Rm
	Northern Rough-winged Swallow	<i>Stelgidopteryx serripennis</i>	Us
	Bank Swallow	<i>Riparia riparia</i>	Us
	Cliff Swallow	<i>Hirundo pyrrhonota</i>	Cs
	Barn Swallow	<i>Hirundo rustica</i>	Cs
Corvidae			
	Steller's Jay	<i>Cyanocitta stelleri</i>	Rw
	Scrub Jay	<i>Apelocoma coerulescens</i>	Am
	Clark's Nutcracker	<i>Nucifraga columbiana</i>	Rm
	Black-billed Magpie	<i>Pica pica</i>	Cr
	American Crow	<i>Corvus brachyrhynchos</i>	Ur
	Common Raven	<i>Corvus corax</i>	Cr

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Table 1. Status of Birds of the Hanford Site, Washington.
(sheet 8 of 11)

Family	Common name	Genus species	Status
Paridae	Blacked-capped Chickadee	<i>Parus atricapillus</i>	Um
Sittidae	Red-breasted Nuthatch	<i>Sitta canadensis</i>	Ur
Troglodytidae	Rock Wren	<i>Salpinctes obsoletus</i>	Us
	Canyon Wren	<i>Catherpes mexicanus</i>	Rs
	Bewick's Wren	<i>Thryomanes bewickii</i>	Rs
	House Wren	<i>Troglodytes aedon</i>	Rs
	Winter Wren	<i>Troglodytes troglodytes</i>	Rw
	Marsh Wren	<i>Cistothorus palustris</i>	Ur
Muscicapidae	Golden-crowned Kinglet	<i>Regulus satrapa</i>	Uw
	Ruby-crowned Kinglet	<i>Regulus calendula</i>	Uw
	Western Bluebird	<i>Sialia mexicana</i>	Rm
	Mountain Bluebird	<i>Sialia currucoides</i>	Rm
	Townsend's Solitaire	<i>Myadestes townsendi</i>	Rw
	Swainson's Thrush	<i>Catharus ustulatus</i>	Rm
	Hermit Thrush	<i>Catharus guttatus</i>	Uw
	American Robin	<i>Turdus migratorius</i>	Cr
	Varied Thrush	<i>Ixoreus naevius</i>	Rw
Mimidae	Gray Catbird	<i>Dumetella carolinensis</i>	Am
	Northern Mockingbird	<i>Mimus polyglottos</i>	Am
	Sage Thrasher	<i>Oreoscoptes montanus</i>	Rs
Motacillidae	American Pipit	<i>Anthus rubescens</i>	Um

Abundance:

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seldom seen or heard
- A - accidental--appeared once or twice, but well out of normal range.

Seasonal occurrence:

- r - resident--present all year but abundance may vary seasonally
- s - summer visitor (includes spring and fall)
- w - winter visitor (includes spring and fall)
- m - migrant.

Table 1. Status of Birds of the Hanford Site, Washington.
(sheet 9 of 11)

Family	Common name	Genus species	Status
Bombycillidae			
	Bohemian Waxwing	<i>Bombycilla garrulus</i>	Rw
	Cedar Waxwing	<i>Bombycilla cedrorum</i>	Uw
Laniidae			
	Northern Shrike	<i>Lanius excubitor</i>	Uw
	Loggerhead Shrike	<i>Lanius ludovicianus</i>	Us
Sturnidae			
	European Starling	<i>Sturnus vulgaris</i>	Cr
Vireonidae			
	Solitary Vireo	<i>Vireo solitarius</i>	Um
	Hutton's Vireo	<i>Vireo huttoni</i>	Am
	Warbling Vireo	<i>Vireo gilvus</i>	Um
	Philadelphia Vireo	<i>Vireo philadelphicus</i>	Am
	Red-eyed Vireo	<i>Vireo olivaceus</i>	Um
Emberizidae			
	Tennessee Warbler	<i>Vermivora peregrina</i>	Am
	Orange-crowned Warbler	<i>Vermivora celata</i>	Um
	Nashville Warbler	<i>Vermivora ruficapilla</i>	Rm
	Yellow Warbler	<i>Dendroica petechia</i>	Us
	Yellow-rumped Warbler	<i>Dendroica coronata</i>	Cw
	Townsend's Warbler	<i>Dendroica townsendi</i>	Um
	Palm Warbler	<i>Dendroica palmarum</i>	Am
	American Redstart	<i>Setophaga ruticilla</i>	Am
	MacGillivray's Warbler	<i>Oporornis tolmiei</i>	Um
	Common Yellowthroat	<i>Geothlypis trichas</i>	Rm
	Wilson's Warbler	<i>Wilsonia pusilla</i>	Um
	Yellow-breasted Chat	<i>Icteria virens</i>	Us

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Table 1. Status of Birds of the Hanford Site, Washington.
(sheet 10 of 11)

Family	Common name	Genus species	Status
Emberizidae (continued)			
	Western Tanager	<i>Piranga ludoviciana</i>	Um
	Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>	Am
	Black-headed Grosbeak	<i>Pheucticus melanocephalus</i>	Rs
	Lazuli Bunting	<i>Passerina amoena</i>	Rs
	Rufous-sided Towhee	<i>Pipilo erythrophthalmus</i>	Uw
	American Tree Sparrow	<i>Spizella arborea</i>	Rw
	Chipping Sparrow	<i>Spizella passerina</i>	Rm
	Brewer's Sparrow	<i>Spizella breweri</i>	Rr
	Vesper Sparrow	<i>Pooecetes gramineus</i>	Rm
	Lark Sparrow	<i>Chondestes grammacus</i>	Rs
	Sage Sparrow	<i>Amphispiza belli</i>	Us
	Savannah Sparrow	<i>Passerculus sandwichensis</i>	Us
	Grasshopper Sparrow	<i>Ammodramus savannarum</i>	Us
	Fox Sparrow	<i>Passerella iliaca</i>	Rm
	Song Sparrow	<i>Melospiza melodia</i>	Ur
	Lincoln's Sparrow	<i>Melospiza lincolnii</i>	Rm
	Swamp Sparrow	<i>Melospiza georgiana</i>	Am
	Golden-crowned Sparrow	<i>Zonotrichia atricapilla</i>	Rm
	White-crowned Sparrow	<i>Zonotrichia leucophrys</i>	Cr
	Harris' sparrow	<i>Zonotrichia querula</i>	Rw
	Dark-eyed Junco	<i>Junco hyemalis</i>	Cw
	Lapland Longspur	<i>Calcarius lapponicus</i>	Rw
	Bobolink	<i>Dolichonyx oryzivorus</i>	Am
	Red-winged Blackbird	<i>Agelaius phoeniceus</i>	Cr
	Western Meadowlark	<i>Sturnella neglecta</i>	Cr
	Yellow-headed Blackbird	<i>Xanthocephalus xanthocephalus</i>	Us

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Table 1. Status of Birds of the Hanford Site, Washington.
(sheet 11 of 11)

Family	Common name	Genus species	Status
Emberizidae (continued)			
	Rusty Blackbird	<i>Euphagus carolinus</i>	Aw
	Brewer's Blackbird	<i>Euphagus cyanocephalus</i>	Ur
	Brown-headed Cowbird	<i>Molothrus ater</i>	Ur
	Northern Oriole	<i>Icterus galbula</i>	Us
Fringillidae			
	Rosy Finch	<i>Leucosticte arctoa</i>	Rw
	Purple Finch	<i>Carpodacus purpureus</i>	Aw
	House Finch	<i>Carpodacus mexicanus</i>	Cr
	Common Redpoll	<i>Carduelis flammea</i>	Aw
	Pine Siskin	<i>Carduelis pinus</i>	Rw
	Lesser Goldfinch	<i>Carduelis psaltria</i>	Am
	American Goldfinch	<i>Carduelis tristis</i>	Ur
	Evening Grosbeak	<i>Coccothraustes vespertinus</i>	Uw
Passeridae			
	House Sparrow	<i>Passer domesticus</i>	Cr

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Table 2. Observation Dates and Locations of Birds Listed as Accidentals at the Hanford Site. (sheet 1 of 2)

Species	Date	Location	Personnel
American Redstart ¹	Sept. 15, 1983	Columbia River	WHC ²
Arctic Tern ³	May 21, 1957	Columbia River	Hanson, 1958
Band-tailed Pigeon ³	Spring 1976	Snively Canyon	PNL Report
Barred Owl	Feb. 15, 1978	FFTF	WHC
Black-chinned Hummingbird ¹	May 11, 1983	200 East	WHC
Black Phoebe	Sept. 4, 1962	Snively Canyon	Rickard, 1964
Blackbellied Plover	Oct. 17, 1984	B-Pond	WHC
Bobolink ¹	Oct 21, 1990	4 mi E Yakima Barricade	WHC
	May 1980	Gable Mtn. Pond	WHC
Brant ¹	Nov. 27, 1957	Columbia River	Hanson, 1958
Common Poorwill	Oct. 11, 1983	Columbia River	WHC
Common Redpoll ¹	Jan. 9, 1986	A-29 Ditch	WHC
Flammulated Owl	March 4, 1972	Bobcat Canyon	Fitzner et al., 1981
Gray Catbird ¹	May 1978	A-29 Ditch	WHC
Gyr Falcon	Mar. 3, 1985	200 East	WHC
	Jan. 2-16, 1986	Gable Butte	WHC
Herring Gull	Jan. 13, 1981	Columbia River	WHC
	Oct. 24, 1983	B-Pond	WHC
Hutton's Vireo	Mar. 20, 1972	U-Pond	Fitzner & Rickard, 1975
	May 13, 1983	Hanford Townsite	WHC
Lesser Goldfinch	Feb. 2, 1981	Hanford Townsite	WHC
Long-tailed Jaeger	Dec. 12, 1982	200 West	WHC
	June 12, 1969	Columbia River	Hanson, 1970
Marbled Godwit ¹	April 18, 1983	West Lake	WHC
Mountain Plover ¹	Spring 1982 or 1983	Columbia River	Books, 1985
Northern Bobwhite ¹	June 29, 1983	10 mi. East Yakima Barricade	WHC

Table 2. Observation Dates and Locations of Birds Listed as Accidentals at the Hanford Site. (sheet 2 of 2)

Species	Date	Location	Personnel
Northern Mockingbird ³	June 1971	U-Pond	Fitzner & Price, 1973
Northern Saw-whet Owl	July 17, 1978 Oct. 2, 1977	Snively Canyon McGee Ranch	Fitzner et al., 1981 WHC
Palm Warbler	Sept. 14, 1983 Oct. 4, 1983	Columbia River McGee Ranch	WHC WHC
Parasitic Jaeger ³	June 30, 1969	Columbia River	Hanson, 1970
Peregrine Falcon	Unknown Mar. 3, 1983	Unknown Columbia River	Fitzner, et al., 1981 WHC
Philadelphia Vireo	May 12, 16-17, 1983	McGee Ranch A-29 Ditch	WHC
Red-breasted Merganser	Jan. 7, 1985 Feb. 20, 1985	B-Pond B-Pond	WHC WHC
Red Phalarope ¹	Aug. 15, 1989	West Lake	WHC
Rose-breasted Grosbeak ¹	May 16, 1986	A-29 Ditch	WHC
Rusty Blackbird ¹	March 23, 1986	A-29 Ditch	WHC
Scrub Jay ¹	August 1990	Yakima Barricade	WHC
Sharp-tailed Sandpiper	July 7, 1983	West Lake	WHC
Swamp Sparrow	Feb 17, 1972 May 22, 1981	U-Pond Redox Pond	Fitzner & Rickard, 1975 WHC
Tennessee Warbler	May 17, 1983	McGee Ranch	WHC
Trumpeter Swan	Oct. 20, 1981 Dec. 7, 1984	Columbia River Columbia River	WHC WHC
Turkey Vulture	Spring 1978	Rattlesnake Mtn.	Fitzner et al., 1981
Western Screech Owl ¹	May 1981	Wye Barricade	WHC

¹Single observer sighting.²Westinghouse biologists or Audubon Society member observations.³Not enough information given in previously published documents to indicate number of observers.

FFTF = Fast Flux Test Facility

PNL = Pacific Northwest Laboratory

WHC = Westinghouse Hanford Company.

Table 3. Hypothetical List of Birds Observed
Within 50 Miles of the Hanford Site.

Black Scoter	Black Tern
Black-necked Stilt	Black-throated Gray Warbler
Blackburnian Warbler	Blackpoll Warbler
Blue Jay	Brown Creeper
Cassin's Finch	Cattle Egret
Green-backed Heron	Harlequin Duck
Hudsonian Godwit	LeConte's Sparrow
Lesser Golden Plover	Mew Gull
Mountain Chickadee	Northern Parula Warbler
Northern Waterthrush	Ovenbird
Pomarine Jaeger	Prothonotary Warbler
Pygmy Nuthatch	Red Crossbill
Red-necked Grebe	Red Knot
Red-throated Loon	Red-naped Sapsucker
Ross' Goose	Ruddy Turnstone
Short-billed Dowitcher	Snowy Plover
Surf Scoter	Thayer's Gull
Three-toed Woodpecker	Vaux' Swift
Whimbrel	White-breasted Nuthatch
White-faced Ibis	White-winged Crossbill
White-winged Scoter	Willet
Wood Duck	Yellow-billed Cuckoo

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